What is claimed is:

| L | A structure for providing resilient interconnections in a wafer level |
|---|---|
| 2 | package, comprising a conductive pad that overlays an air space, wherein at |
| 3 | least a portion of the air space extends laterally beyond the conductive pad. |

2. The structure as claimed in claim 1, wherein the air space comprises a geometric structure having a plurality of perimeter interconnect support structures for the conductive pad.

3. The structure as claimed in claim 2, wherein at least one perimeter interconnect support structure also supports a conductive line electrically connected to the conductive pad.

4. The structure as claimed in claim 3, wherein the conductive line is a metal wire.

5. The structure as claimed in claim 1, wherein a major axis of the air space is radial to a center of the wafer level package.

6. The structure as claimed in claim 1, wherein a major axis of the air space is not radial to a center of the wafer level package.

| 1 | 7. | The s | tructure as claimed in claim 2, wherein at least one perimeter | | |
|----|--|--------|--|--|--|
| 2 | interconnect | suppo | rt structure also supports a conductive line electrically | | |
| 3 | connected to the conductive pad. | | | | |
| 1 | | | | | |
| 1 | 8. | The s | structure as claimed in claim 7, wherein the at least one | | |
| 2 | perimeter int | erconr | nect support structure is positioned relative to a center of the | | |
| 3 | conductive pad less than or equal to about 60 degrees of the major axis. | | | | |
| 1 | | | | | |
| 1 | 9. | A me | thod for making a structure for providing resilient | | |
| 2 | interconnections in a wafer level package, comprising the steps of: | | | | |
| 3 | | A. | forming a cavity having a first area on a semiconductor | | |
| 4 | subs | trate; | | | |
| 5 | | B. | filling the cavity with a removable material; | | |
| 6 | | C. | forming a conductive layer over the removable material; | | |
| 7 | | D. | patterning the conductive layer to form a conductive pad; | | |
| 8 | | E. | removing the removable material to form an air space below | | |
| 9 | the conductive pad; and | | | | |
| 10 | | F. | forming an interconnection material on the conductive pad, | | |
| 11 | whereby at least a portion of the air space extends laterally beyond the | | | | |
| 12 | conductive p | oad. | | | |
| 1 | | | | | |
| 1 | 10. | The | method as claimed in claim 9, wherein the removable material | | |
| 2 | is planarized before forming the conductive layer. | | | | |

| 1 | 11. | The method as claimed in claim 10, wherein the planarization is | | | | |
|---|---|---|--|--|--|--|
| 2 | carried out by either an etch-back process or a CMP process. | | | | | |
| 1 | | | | | | |
| 1 | 12. | The method as claimed in claim 9, wherein the removable material | | | | |
| 2 | is material selected from the group consisting of a monomeric material, a | | | | | |
| 3 | polymeric material, and an elastomeric material. | | | | | |
| 1 | | | | | | |
| 1 | 13. | The method as claimed in claim 9, wherein the removable material | | | | |
| 2 | is a B-stage-able material. | | | | | |
| 1 | | | | | | |
| 1 | 14. | The method as claimed in claim 9, wherein the cavity is formed by | | | | |
| 2 | depositing a dielectric layer and thereafter patterning the dielectric layer. | | | | | |
| 1 | | | | | | |
| 1 | 15. | The method as claimed in claim 14, wherein the patterning of the | | | | |
| 2 | dielectric layer is carried out using a photolithographic process. | | | | | |
| 1 | | | | | | |
| 1 | 16. | The method as claimed in claim 9, wherein after forming the | | | | |
| 2 | conductive layer, a dielectric layer is deposited over the conductive layer. | | | | | |
| 1 | | | | | | |
| 1 | 17. | The method as claimed in claim 9, wherein after forming the air | | | | |
| 2 | space, a protective layer is deposited on a top and bottom surface of the | | | | | |
| 3 | conductive pad. | | | | | |
| 1 | | | | | | |

The method as claimed in claim 17, wherein the protective layer is 18. 1 carried out by an electroless plating method. 2 1 The method as claimed in claim 18, wherein the protective layer is 1 19. formed using a metal. 2 1 20. The method as claimed in claim 19, wherein the metal is selected 1 from the group consisting of gold and nickel. 2